	Application No.	Applicant(s)
Notice of Allowability	09/872,865	NIGHAN ET AL.
	Examiner	Art Unit
	ARMANDO RODRIGUEZ	2828
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subject	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to <u>RCE filed on October</u>	<u>r 18, 2004</u> .	
2. X The allowed claim(s) is/are <u>1,2,5-10,12-16 and 18-24</u> .		
3. \boxtimes The drawings filed on <u>01 June 2001</u> are accepted by the E	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		oly complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review (PT	O-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	•	
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	e Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summa	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail 08), 7. ☐ Examiner's Ame	ndment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's State 9. □ Other	ement of Reasons for Allowance
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 18, 2004 has been entered.

Response to Amendment

Claims 1,2,5-10,12-16,18-24 are pending.

Claims 3,4,11 and 17 have been canceled.

Allowable Subject Matter

Claims 1,2,5-10,12-16,18-24 are allowed.

The following is an examiner's statement of reasons for allowance:

After reviewing applicant's amendment, arguments and conducting an updated search none of the cited prior arts alone or in combination discloses the claimed diode pumped intracavity doubled laser having the recited limitations of independent claims 1 and 24.

Regarding claims 1,2,5-10,12-16 and 18-21,

None of the cited prior arts alone or in combination discloses the structural combination of claim 1 having a resonant cavity with an Nd:YVO₄ laser crystal, an LBO

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doubling crystal and a diode pump source to produce in particular an output power of at least 1 watt and optical efficiency of at least 20%.

Regarding claims 22-24,

None of the cited prior arts alone or in combination discloses the structural combination of claim 22 having a resonant cavity with an Nd:YVO₄ laser crystal, an LBO doubling crystal and a diode pump source to produce in particular an output power of at least 1 watt and optical efficiency of at least 8%.

The reference to Amano (PN 5,265,115) discloses the combination of an Nd:YVO₄ laser crystal and an LBO doubling crystal, but fails to provide at least 1 watt of output power and is silent as to the optical efficiency of the laser system. In column 5 lines 63-66 describes the output beam L2 having an output of 20 mW.

The references to Nighan, Jr. et al (PN 6,287,298) and Nighan, Jr. et al (PN 5,638,388) where both references discloses similar inventions as the present application and both references have the same inventive entity, applicant has filed a terminal disclaimer for each reference to obviate any double patenting.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ϋ́RM̈́ANDO∕RODRIGUEZ

Examiner

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MINSUN HARVEY **SUPERVISOR**

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AR/MH